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NEWS 4 AUG 13 CA/CAplus enhanced with additional kind codes for granted patents
NEWS 5 AUG 20 CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 6 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 7 AUG 27 USPATOLD now available on STN
NEWS 8 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 9 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 10 SEP 13 FORIS renamed to SOFIS
NEWS 11 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 12 SEP 17 CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 13 SEP 17 CAplus coverage extended to include traditional medicine patents
NEWS 14 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 15 OCT 02 CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 16 OCT 19 BEILSTEIN updated with new compounds
NEWS 17 NOV 15 Derwent Indian patent publication number format enhanced
NEWS 18 NOV 19 WPIX enhanced with XML display format
NEWS 19 NOV 30 ICSD reloaded with enhancements
NEWS 20 DEC 04 LINPADOCDB now available on STN
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NEWS 22 DEC 17 USPATOLD added to additional database clusters
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NEWS 25 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS 26 DEC 17 MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS 27 DEC 17 CA/CAplus enhanced with new custom IPC display formats
NEWS 28 DEC 17 STN Viewer enhanced with full-text patent content from USPATOLD
NEWS 29 JAN 02 STN pricing information for 2008 now available
NEWS 30 JAN 16 CAS patent coverage enhanced to include exemplified prophetic substances

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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FILE 'HOME' ENTERED AT 18:20:28 ON 17 JAN 2008

=> file registry
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

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Uploading C:\Program Files\Stnexp\Queries\10 series\10501510\10501510a.str
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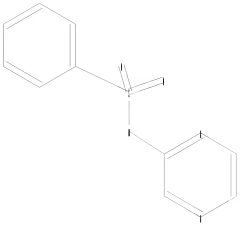

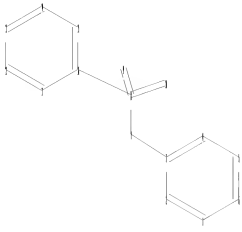

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7  8  9  10
ring nodes :
1  2  3  4  5  6  11  12  13  14  15  16
chain bonds :
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ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  11-12  11-16  12-13  13-14  14-15  15-16
exact/norm bonds :
3-7  7-8  8-9  8-10  8-16
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  11-12  11-16  12-13  13-14  14-15  15-16


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
 11:Atom  12:Atom  13:Atom  14:Atom  15:Atom  16:Atom



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
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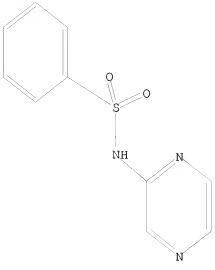

Structure attributes must be viewed using STN Express query preparation.

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=> s l1
SAMPLE SEARCH INITIATED 18:20:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      312 TO ITERATE

100.0% PROCESSED      312 ITERATIONS                          50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          5181 TO     7299
PROJECTED ANSWERS:             4396 TO     6364

L2           50 SEA SSS SAM L1

=> d scan

L2   50 ANSWERS   REGISTRY  COPYRIGHT 2008 ACS on STN
IN   Benzenesulfonamide, N-[3-[(2-chloro-5-methoxyphenyl)amino]-2-quinoxalinyl]-
     3-[1-[[2-(dimethylamino)ethyl]amino]ethyl]-, 2,2,2-trifluoroacetate (1:1)
MF   C27 H31 Cl N6 O3 S . C2 H F3 O2

     CM   1
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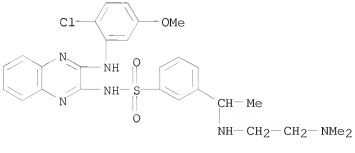
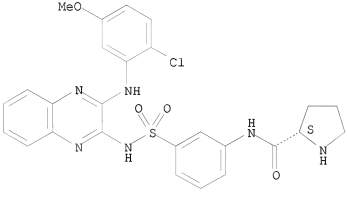


CM 2

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

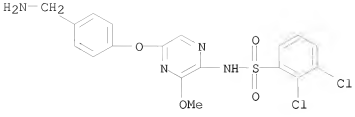
L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2-Pyrrolidinecarboxamide, N-[3-[[[3-[(2-chloro-5-methoxyphenyl)amino]-2-quinoxalinyl]amino]sulfonyl]phenyl]-, (2S)-
MF C26 H25 Cl N6 O4 S
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Benzenesulfonamide, N-[5-[4-(aminomethyl)phenoxy]-3-methoxy-2-pyrazinyl]-2,3-dichloro-
MF C18 H16 Cl2 N4 O4 S
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1 full
FULL SEARCH INITIATED 18:21:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6415 TO ITERATE

100.0% PROCESSED 6415 ITERATIONS 5269 ANSWERS
SEARCH TIME: 00.00.01

L3 5269 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.82	179.03

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FILE LAST UPDATED: 16 Jan 2008 (20080116/ED)

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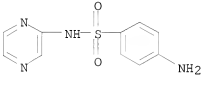
=> s l3 and pd<=20010116
1615 L3
21675794 PD<=20010116
(PD<=20010116)
L4 1312 L3 AND PD<=20010116

=> d l4 ibib abs hitstr 1300-1312

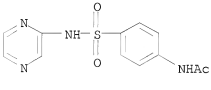
L4 ANSWER 1300 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1942:44753 CAPLUS
DOCUMENT NUMBER: 36:44753
ORIGINAL REFERENCE NO.: 36:7137i,7138a-b
TITLE: The absorption, excretion and distribution of 2-sulfanilamidopyrazine (sulfapyrazine) in man
AUTHOR(S): Hamburger, Morton, Jr.; Ruegsegger, J. M.; Brookens, Norris L.; Eakin, Esther
SOURCE: American Journal of the Medical Sciences (1942), 204, 186-93
CODEN: AJMSA9; ISSN: 0002-9629
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Sulfapyrazine is absorbed rather slowly from the gastrointestinal tract. It is excreted more slowly by the kidney than is sulfadiazine, sulfapyridine or sulfathiazole. It is acetylated by the body, the conjugated form usually exceeding 50% of the total drug in the urine. Acetylsulfapyrazine is slightly more soluble in water or urine than is sulfapyrazine. Both compds. are much more soluble in alkaline than in acid media. Sulfapyrazine enters the cerebrospinal fluid slowly, reaching concns. of about 50% of that in the blood 12 hrs. after an intravenous injection. In most body fluids the concns. of the drug approach or exceed those in the blood, except that very little appears in milk. In the red blood cells the drug concentration is about half that in the plasma.

IT 116-44-9, Sulfapyrazine
(absorption, distribution and excretion of)
RN 116-44-9 CAPLUS
CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)



IT 5433-91-0P, Acetanilide, p-(2-pyrazinylsulfamyl)-
RL: PREP (Preparation)
(preparation of)
RN 5433-91-0 CAPLUS
CN Acetamide, N-[4-[(pyrazinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 1301 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1942:37656 CAPLUS
DOCUMENT NUMBER: 36:37656
ORIGINAL REFERENCE NO.: 36:5896i,5897a-b
TITLE: The use of 2-sulfanilamidopyrazine in pneumococcal pneumonia. A preliminary report
AUTHOR(S): Ruegsegger, J. M.; Hamburger, Morton, Jr.; Turk, A. S.; Spies, T. D.; Blankenhorn, M. A.

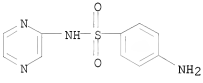
SOURCE: American Journal of the Medical Sciences (1941), 202, 432-35
CODEN: AJMSA9; ISSN: 0002-9629
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB 2-Sulfanilamidopyrazine ("sulfapyrazine") is a colorless, tasteless, crystalline substance, m. 255-257°. It is slightly soluble in water but dissolves readily in weakly alkaline solns. Na 2-sulfanilamidopyrazine monohydrate is freely soluble and is less strongly alkaline than the Na salts of sulfapyridine, sulfathiazole and sulfadiazine (pH 9.3, 10.7, 10.0 and 10.2, resp., for 10% solns. in physiol. saline). One g. per kg. given intraperitoneally was fatal to mice, but 0.5 g. per kg. produced no ill effects. Twenty-two selected patients with pneumococcal pneumonia received the Na salt by mouth. All showed prompt improvement and ultimate recovery with no significant signs of toxicity.

IT 116-44-9, Sulfapyrazine
(in pneumonia treatment)

RN 116-44-9 CAPLUS

CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)



L4 ANSWER 1302 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN

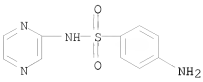
ACCESSION NUMBER: 1942:4969 CAPLUS
DOCUMENT NUMBER: 36:4969
ORIGINAL REFERENCE NO.: 36:837e-g
TITLE: Sulfapyrazine (2-sulfanilamidopyrazine); its antipneumococcal activity as compared with that of sulfapyridine, sulfathiazole and sulfadiazine
AUTHOR(S): Schmidt, L. H.; Ruegsegger, J. M.; Sesler, Clara L.; Hamburger, Morton, Jr.
SOURCE: J. Pharmacol. (1941), 73, 468-73
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Sulfapyrazine was as effective as sulfadiazine against exptl. pneumococcal infections in mice and was more effective than sulfapyridine and sulfathiazole. It was only slightly less effective than sulfathiazole in vitro and more effective than the other two drugs. Blood concns. in treated mice were more nearly constant than those of any of the other drugs, levels 8 hrs. after treatment being nearly identical with those at 2 hrs. This may account for its effectiveness in vivo.

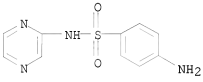
IT 116-44-9, Sulfapyrazine
(in pneumonia treatment)

RN 116-44-9 CAPLUS

CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)

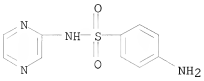


IT 116-44-9P, Sulfapyrazine
RL: PREP (Preparation)
(preparation of)
RN 116-44-9 CAPLUS
CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)



L4 ANSWER 1303 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1942:2731 CAPLUS
DOCUMENT NUMBER: 36:2731
ORIGINAL REFERENCE NO.: 36:427i,428a-c
TITLE: N1-Heterocyclic sulfanilamide derivatives
AUTHOR(S): Raiziss, G. W.; Clemence, L. W.; Freifelder, M.
SOURCE: Journal of the American Chemical Society (1941
), 63, 2739-40
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The N1-substituted sulfanilamides were prepared in the usual manner by the condensation of p-AcNHC6H4SO2Cl and the corresponding heterocyclic amine in C5H5N; in some cases an addnl. solvent, such as Me2CO, was added to promote solution; the C5H5N may be replaced in several cases by NaHCO3 in aqueous
Me2CO; the crude Ac derivs. were hydrolyzed by refluxing with N NaOH or 10% HCl. 5-Sulfanilylamino-2-methoxypyridine, m. 178°; 2-sulfanilylamino-6-piperidylpyridine, m. 185°; N-sulfanilyl-1,2,3,4-tetrahydroquinoline, m. 125°; 7-sulfanilylamino-2-hydroxy-3,4-dihydroquinoxaline, m. 188°; 2-sulfanilylamino-5,6-diphenyl-1,3,4-triazine, m. 189°; 2-sulfanilylamino-5,6-dihydro-1,3,4-thiazine, m. 88°; the 5-Br derivative m. 100°; Na salt of 3-sulfanilylamino-5-methyltriazole, does not m. at 300°; 4-sulfanilylaminopyrazole, m. 185°; 3,5-di-Me derivative, m. 233°; 2-sulfanilylaminobenzimidazole, m. 211-12°; 2-sulfanilylaminophenothiazine, m. above 315°; 4-sulfanilylamino-3,5-diphenylpyrrole, m. 178-80°; 2-sulfanilylaminopyrazine (I), m. 253°; 5-sulfanilylaminohydantoin (II), m. 122°; 2-sulfanilylaminothiazoline (III), m. 209-10°. The therapeutic activity of these compds. as determined in lower animals infected with pneumococcus type II proved to be generally low except I-III; III is particularly interesting both on account of low toxicity and high therapeutic effect.
IT 116-44-9P, Sulfapyrazine
RL: PREP (Preparation)
(preparation of)

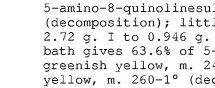
RN 116-44-9 CAPLUS
CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)



L4 ANSWER 1304 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1942:2726 CAPLUS
DOCUMENT NUMBER: 36:2726
ORIGINAL REFERENCE NO.: 36:425f-i
TITLE: Heterocyclic derivatives related to sulfanilamide. I. The quinoline analog of sulfanilamide and derivatives
AUTHOR(S): Urist, Harold; Jenkins, Glenn L.
SOURCE: Journal of the American Chemical Society (1941), 63, 2943-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Bis(5-nitro-8-quinolyl) disulfide (Winter and Reinhart, C. A. 35, 1057.1) (100 g.), oxidized with 400 cc. concentrated HNO3 added slowly with final heating on the water bath for 1 hr., gives 75% of 5-nitro-8-quinolinesulfonic acid, m. above 211° (decomposition); benzylisothiourea salt, greenish yellow, m. 216.5-17.5°; Na salt, yellow platelets (94%); the yellow chloride (I) (light yellow, m. 104-6°) in Me2CO, added dropwise to concentrated NH4OH, gives a practically quant. yield of 5-nitro-8-quinolinesulfonamide (II), yellowish brown, m. 186-7°. Reduction of 4 g. crude II in 40 cc. 50% AcOH with 4 g. powdered Fe (added during 3 hrs. at 90°) with heating for an addnl. hr. gives 28.6% of 5-amino-8-quinolinesulfonamide, orange-yellow, m. 261-5.5° (decomposition); little or no reduction occurred with purified II. Addition of 2.72 g. I to 0.946 g. of 2-aminopyridine in 10 cc. anhydrous C5H5N in an ice bath gives 63.6% of 5-nitro-N8-(2-pyridyl)-8-quinolinesulfonamide, greenish yellow, m. 249-50° (decomposition); the 2-thiazyl derivative, yellow, m. 260-1° (decomposition); in both cases the reduction of the NO2 group could not be accomplished. Various unsuccessful attempts to prepare II and 8-amino-5-quinolinesulfonamide are listed.

IT 5433-91-0P, Acetanilide, p-(2-pyrazinylsulfamyl)-
RL: PREP (Preparation)
(preparation of)
RN 5433-91-0 CAPLUS
CN Acetamide, N-[4-[(pyrazinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



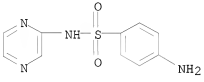
L4 ANSWER 1305 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1942:2725 CAPLUS
DOCUMENT NUMBER: 36:2725
ORIGINAL REFERENCE NO.: 36:425d-f

TITLE: Syntheses in the pyrazine series. IV. 2-Sulfanilamidopyrazine
AUTHOR(S): Sausville, Joseph W.; Spoerri, Paul E.
SOURCE: Journal of the American Chemical Society (1941), 63, 3153-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 36:2725

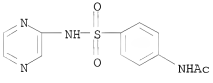
AB cf. C. A. 35, 5896.9. Details are given of the oxidation of quinoxaline with alkaline KMnO4 to give 66.8% of 2,3-pyrazinedicarboxylic acid, m. 190° (decomposition); the 1st ionization constant (determined from the half-neutral point in electrometric titrations at the H electrode) is 1.7 ± 0.4 + 10-3; the 2nd CO2H group was too weak to produce an inflection on the titration curve. The constant for the decarboxylation product (pyrazinecarboxylic acid) of the diacid is 1.2 ± 0.3 + 10-3. 2,5-Pyrazinedicarboxylic acid is too insol. in H2O to produce reliable values through electrometric titrations. Aminopyrazine (0.9 g.) and 2.3 g. of AcNHC6H4SO2Cl in 5 cc. of a 50% solution of dried Me2CO-C5H5N, refluxed 1 hr., give 43% of the N4-Ac derivative, m. 240-2°, of 2-sulfanilamidopyrazine, m. 251-1.5° (58% yield on hydrolysis); it is soluble in about 1000 parts of hot cyclohexanol.

IT 116-44-9P, Sulfapyrazine 5433-91-0P, Acetanilide, p-(2-pyrazinylsulfamyl)-
RL: PREP (Preparation)
(preparation of)

RN 116-44-9 CAPLUS
CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)



RN 5433-91-0 CAPLUS
CN Acetamide, N-[4-[(pyrazinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 1306 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1942:2724 CAPLUS
DOCUMENT NUMBER: 36:2724
ORIGINAL REFERENCE NO.: 36:424i,425a-d
TITLE: 2-Sulfanilylaminothiazoline
AUTHOR(S): Raiziss, George W.; Clemence, LeRoy W.
SOURCE: Journal of the American Chemical Society (1941), 63, 3124-6
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 36:2724

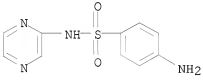
GI For diagram(s), see printed CA Issue.

AB Details are given of the preparation of ClCH2CH2NH2.HCl (I) in 99% (crude) yield from HOCH2CH2NH2 and HCl in CHCl3 and of 2-aminothiazoline (II) in 70% yield by refluxing I and KCNS in H2O for 9 h. II (51 g.) in 80 cc. C5H5N and 200 cc. Me2CO, treated gradually with 234 g. of p-AcNHC6H4SO2Cl at a temperature below 60° and let stand overnight with 5 l. H2O containing 50 cc. concentrated HCl, gives 78% of 2-(acetylsulfanilylimino)-3-(acetylsulfanilyl)thiazolidine (III), CH2.CH2.S.C(:NSO2C6H4NHAc).NSO2C6H4NHAc, m. 164-5° (with 1 mol of H2O) or 205-6° (anhydrous). Refluxing III with 10 vols. of 10% HCl for 0.5 h. gives 70% of crude hydrolysis product; stirring with 10 vols. of N NaOH for 1 h. gives 10-15% of insol. material, separated by crystallization from 50% EtOH or a mixture of equal vols. of C5H5N and H2O into 2-(sulfanilylimino)-3-sulfanilylthiazolidine, m. 259-61° (cf. Jensen and Thorsteinsson, C. A. 35, 5109.4), and from the mother liquor 3-sulfanilylthiazolidin-2-one, CH2.CH2.S.CO.NSO2C6H4NH2, m. 206-8°; the alkali-soluble portion yields about 50% of 2-sulfanilylaminothiazoline (sulfathiazoline) (IV), m. 209-10°; Ac2O gives the mono-Ac derivative, m. 256-8°. IV in exptl. pneumococcic infection in mice is about equal to sulfathiazole but it is superior in its effect in staphylococcic infection; it has a low toxicity and when given by mouth, it is absorbed quickly into the blood stream.

IT 116-44-9P, Sulfapyrazine
RL: PREP (Preparation)
(preparation of)

RN 116-44-9 CAPLUS

CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)



L4 ANSWER 1307 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1941:47763 CAPLUS

DOCUMENT NUMBER: 35:47763

ORIGINAL REFERENCE NO.: 35:7408f-g

TITLE: Sulfapyrazine, sulfapyrimidine and sulfadiazine

AUTHOR(S): Ellingson, Rudolph C.

SOURCE: Journal of the American Chemical Society (1941), 63, 2524-5
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

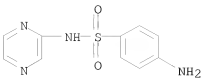
LANGUAGE: Unavailable

AB p-AcNHC6H4SO2Cl and 2-aminopyrazine in C5-H5N give the N4-Ac derivative (I), m. 250-2° (decomposition), of 2-sulfanilamidopyrazine, (II), m. 255-7°; both compds. are tasteless; II and NaOH in EtOH give the Na salt, with 1 mol. of H2O. The solubility of II and I in 100 cc. H2O at 37° is 5.2 and 5.6 mg., resp. The pH of a 10% solution of the Na salt in physiol. saline is 9.3. II is sulfa-p-diazine and the sulfadiazine of Roblin, et al. (C. A. 34, 6630.6) is 1 of the 3 possible sulfa-m-diazines.

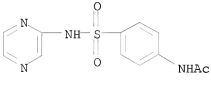
IT 116-44-9, Sulfapyrazine
(and derivs.)

RN 116-44-9 CAPLUS

CN Benzenesulfonamide, 4-amino-N-2-pyrazinyl- (CA INDEX NAME)



IT 5433-91-0P, Acetanilide, p-(2-pyrazinylsulfamyl)-
RL: PREP (Preparation)
(preparation of)
RN 5433-91-0 CAPLUS
CN Acetamide, N-[4-[(pyrazinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



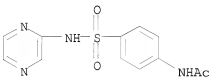
L4 ANSWER 1308 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1941:47762 CAPLUS
DOCUMENT NUMBER: 35:47762
ORIGINAL REFERENCE NO.: 35:7407g-i,7408a-f
TITLE: Synthesis of pyrimidine and purine derivatives of cystamine and of a new type of thiazolidinopyrimidine
AUTHOR(S): Nathan, Alan Hart; Bogert, Marston Taylor
SOURCE: Journal of the American Chemical Society (1941), 63, 2361-6
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C. A. 34, 6284.6. (CH2)2NH, treated with H2S at 60°, gives 13.6% of HSCH2CH2NH2 (I) and 50% of S(CH2CH2NH2)2, b22 130-1°; dibenzylidene derivative, m. 56.4-7.4° (m. ps. corrected); dicinnamylidene derivative, pale yellow, m. 83.5-4°. Oxidation of I with H2O2 gives a nearly quant. yield of (H2NCH2CH2S)2. (H2-NCONHCH2CH2S)2 (II) yields a bis (chloroacetyl) derivative, m. 207.5-8.5°. II could not be condensed with NCCH2CO2Et by the use of EtONa; reaction of 23.8 g. II, 17.1 g. of NCCH2CO2H and 61.3 g. Ac2O (heating 1 hr. at 100°) gives 88.3% of bis(β-cyanoacetylureidoethyl) disulfide (III), m. 221-2° (slight decomposition). Cyclization with 30% NaOH, 5% Na2CO3, 5% NaHCO3 or 5% NH4OH (the best) gives 62-70% of bis[β-3-(4-iminobarbituryl)ethyl] disulfide (IV), yellow, m. 276° (decomposition). Boiling with 5% HCl gives 88% of bis[2-(3-barbituryl)ethyl] disulfide (IVA). IV and NANO2 in 87% HCO2H give 87-98% of bis[β-3-(4-imino-5-violuryl)ethyl] disulfide (V), purple, with 2 moles of H2O, decomps. 197-8°; V also results in 72-9% yield from iso-AmNO2 in HCO2H or in 82% yield with NaNO2 in 5% AcOH at 80°; V is destroyed by boiling H2O and HCO2H causes some hydrolysis of the NH group; it is purified by precipitation from NH4OH with dilute HCl. Boiling V with 5% HCl gives 80% of bis[2-(3-violuryl)ethyl] disulfide, m. 230.5-1° (not corrected). V (5 g.)in 6-7 cc. concentrated NH4OH and 20-5 cc. H2O, heated at 100° and treated with 11 g. Na2S2O4.2H2O in 55 cc. cold H2O, gives 2.53 g. of bis[β-3-(4,5-diaminouracilyl)-ethyl] disulfide (VI), pale yellow, m. 261.6° (decomposition); the sparingly soluble sulfate could not be crystallized from H2O without decomposition; VI is quite unstable, decomps. on prolonged

exposure to the air and could not be purified satisfactorily by repptn. from acid solution Heating an intimate mixture of VI and twice its weight of urea at 170-80° under reduced pressure for 1 hr. gives a nearly quant. crude yield of bis[β-(3-uric acid)ethyl] disulfide, with 1 mole of H2O which is not lost after drying overnight at 110°; it does not m. below 350% does not give a definite murexide test and is practically insol. in H2O. IVA (4.8 g.) and 2 g. of Zn in 120 cc. of 5% HCl, boiled gently for 30 min., give 87.1% of thiazolidinobarbituric acid (VII), m. 300.5-1°; cold concentrated HNO3 gives an intense red-violet solution which on evaporation yields a red hygroscopic gum; no reaction occurs with dilute acid and NaNO2; boiling with strong aqueous NaOH gives NH3 but no other products were identified. Boiling 1 g. V with about 50 cc. 5% HCl until the purple color was discharged, 0.75 g. Zn dust added and the mixture heated gently for 30 min. give thiazolidinodialuric acid(?) (VIII), does not m. below 330°; it gives a pos. murexide test; 2% phosphotungstic acid in NH4OH gives a faint blue color, associated with the presence of an NH2 or NH group in position 5 on the pyrimidine ring. Because VII differs from the isomer prepared by Mills and B. (C. A. 34, 6284.6), the latter must carry its -SCH2CH2- group in position 1 of the purine nucleus.

IT 5433-91-0P, Acetanilide, p-(2-pyrazinylsulfamyl)-
RL: PREP (Preparation)
(preparation of)

RN 5433-91-0 CAPLUS

CN Acetamide, N-[4-[(pyrazinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 1309 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1941:37682 CAPLUS

DOCUMENT NUMBER: 35:37682

ORIGINAL REFERENCE NO.: 35:5897a-i,5898a-b

TITLE: Triazine and glyoxaline series

AUTHOR(S): Cook, A. H.; Jones, D. G.

SOURCE: Journal of the Chemical Society (1941) 278-82
CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

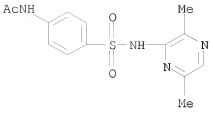
AB Cyaphenine (I), N:CPh.N:CPh.N:CPh, is best prepared (40% yield) by polymerizing PhCN with ClSO3H at 0° for 24-48 h.; SOCl2 or SO2Cl2 is ineffective; Na in C6H6 gives only N:CPh.N:CPh.NH.CPh2; BF3 alone gives a sublimable product but a little I was formed when this was heated with NH4F. o-MeC6H4CN (5 g.) and 10 cc. ClSO3H at 0° for 48 h. give 0.5 g. tri-o-methylcyaphenine, m. 110°. Nitration of I under the most diverse conditions gives a mixture of di- and tri-NO2 derivs. (Claus and Cloetz, J. prakt. Chemical 51, 399(1895), report a pure tri-NO2 derivative); various attempts to polymerize NO2 derivs. are reported but without useful results. Following the method of Eitner and Krafft (Ber. 25, 2266(1892)), 6 g. PhCN, 4 g. m-O2NC6H4COCl, 5 g. NH4Cl and 4.5 g. AlCl3 were heated overnight at 140-50°, giving 2.5 g. m-nitrocyaphenine (II), m. 206°; use of p-O2NC6H4COCl gives the p-isomer, pale yellow, m. 218°. m-O2NC6H4CN (6 g.) and 4 g. BzCl give 5.5 g. of

di-m-nitrocyaphenine, m. 253°; p-isomer, pale yellow, m. 297°. p-O2NC6H4CN and p-O2NC6H4COCl give dinitrocyanobenzophenone, yellow, m. 218°. Tri-p-methylcyaphenine (III) (1 g.) in 5 cc. concentrated H2SO4 and 0.9 g. KNO3 give 0.9 g. of the mono-m-NO2 derivative, m. 239°; 2,4-O2N(NC)C6H3Me with ClSO3H gives the tri-m-NO2 derivative, m. 305-7°, which also results by nitrating III with fuming HNO3 or with more than 1 equivalent of KNO3 in H2SO4. Tri-p-chlorocyaphenine (IV) with fuming HNO3 gives the di-NO2 derivative, m. 348°. The reduction of I by acid reagents causes the elimination of 1 N atom, giving lophine (V), CPh:CPh.NH.CPh:N. Heating 1 g. II and 1 cc. PhNHNH2 for 3 h. at 150° gives 0.8 g. of m-aminocyaphenine, m. 214°; p-isomer, m. 273° (decomposition) (Ac derivative, m. 315°). m-Aminotri-p-methylcyaphenine, yellow, m. 231°; the tri-NO2 derivative, heated with PhNHNH2 sufficient to reduce 1 NO2 group, gives the di-m-nitro-m-amino derivative, m. 261°; the remaining NO2 groups could not be reduced. V was prepared by saturating 2.5 g. benzil and 1.2 cc. BzH in
75
cc. EtOH with NH3 for 2 h.; when 15 g. benzil and 7.5 g. BzH in 50 cc. EtOH are treated with NH3 an unidentified compound, m. 268°, results. Treating IV in boiling AcOH with Zn dust gives tri-p-chlorolophine, m. 268°. Reduction of nitrocyaphenines with Zn and AcOH gives mixts. of bases, probably isomeric aminolophines. Benzil (3 g.), EtCHO (0.9 g.) and 15 g. AcONH4 in 75 cc. AcOH, refluxed 1 h., give 3 g. of 4,5-diphenyl-2-ethylglyoxaline (VI), pale yellow, m. 229°; iso-PrCHO gives the 2-iso-Pr homolog (VII), pale yellow, m. 248°; benzil and o-HOC6H4CHO give 2-o-hydroxyphenyl-4,5-diphenylglyoxaline, yellow, m. 209°; p-MeOC6H4CHO gives the 2-p-methoxyphenyl homolog (VIII), yellow, m. 229°; phenanthrenequinone and BzH give 2-phenyl-4,5,9', 10'-phenanthriminazole, m. 314°; 2-o-nitrophenyl homolog, pale yellow, m. 267°. The yields are practically quant. Benzil could not be replaced by Ac2 or β-naphthoquinone; acraldehyde, crotonaldehyde, β-methylacraldehyde and cinnamaldehyde failed to give glyoxalines. Benzil and o-O2NC6H4CHO give a nearly quant. yield of 2-o-nitrophenyl-4,5-diphenylglyoxaline (IX), yellow, m. 230°; m-isomer, yellow, m. 309°; p-isomer, yellow, m. 240°; p-nitrobenzil and BzH give 4-p-nitrophenyl-2,5-diphenylglyoxaline, yellow, m. 229°; 2-o-hydroxyphenyl homolog, orange, m. 217°; p-nitrobenzil and m-O2NC6H4CHO give 2-m-nitrophenyl-4-p-nitrophenyl-5-phenylglyoxaline, brown plates, m. 226°, or yellow powder, m. 256°; the lower-melting form passes into the higher-melting on heating just above its m. p. Heating 2 g. IX with 2 cc. PhNHNH2 at 150-60° for 2 h. gives 1.1 g. of 2-o-aminophenyl-4,5-diphenylglyoxaline, pale yellow, m. 196°; m-isomer, yellow, m. 283° (decomposition); 4-p-aminophenyl-2,5-diphenylglyoxaline, m. 245° (decomposition). The same compds. were prepared by reduction with Zn in AcOH. Many of the glyoxalines exhibit chemiluminescent properties; that of tri-p-chlorolophine was brightest, though it was yellower and of shorter duration than that of V itself. VIII shows a yellow, VI, VII and the 2-Me homolog, a greenish yellow luminescence; that of tri-p-methyllophine was particularly persistent. m-Nitrolophine was the only compound of this range which exhibited luminescence and was the only nitrolophine not readily soluble in NaOH.

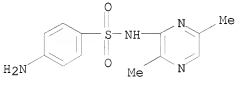
IT 873377-13-0P, Acetanilide, p-(3,6-dimethyl-2-pyrazinylsulfamyl)-
RL: PREP (Preparation)
(preparation of)

RN 873377-13-0 CAPLUS

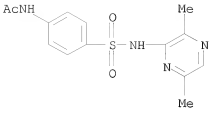
CN Acetanilide, p-(3,6-dimethyl-2-pyrazinylsulfamyl)- (4CI) (CA INDEX NAME)



L4 ANSWER 1310 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1941:37681 CAPLUS
DOCUMENT NUMBER: 35:37681
ORIGINAL REFERENCE NO.: 35:5896i,5897a
TITLE: Syntheses in the pyrazine series. III. The amination of 2,5-dimethylpyrazine. The synthesis of 3-sulfanilamido-2,5-dimethylpyrazine
AUTHOR(S): Joiner, Robert R.; Spoerri, Paul E.
SOURCE: Journal of the American Chemical Society (1941), 63, 1929-30
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A. 34, 2850.2. Heating 7.2 g. 2,5-dimethylpyrazine and 11 g. NaNH2 in 17 cc. PhNMe2 at 165° for 2 hrs. gives 35% of the 3-NH2 derivative (I), m. 111-12°; with xylene the yield is 10%. Addition of 2.068 g. AcNHC6H4SO2Cl to 1.057 g. I in 2.2 cc. C5H5N at a temperature below 50°, heating the mixture on the steam bath for 1 hr., addition of 0.368 g. NaOH in 1.75 cc. H2O and heating 2-3 min. give 57% of the N4-Ac derivative, yellow, m. 238-9°, of 3-sulfanilamido-2,5-dimethylpyrazine, m. 227-8° (corrected).
IT 5433-89-6P, Sulfanilamide, N1-(3,6-dimethyl-2-pyrazinyl)- 873377-13-0P, Acetanilide, p-(3,6-dimethyl-2-pyrazinylsulfamyl)-
RL: PREP (Preparation)
(preparation of)
RN 5433-89-6 CAPLUS
CN Benzenesulfonamide, 4-amino-N-(3,6-dimethylpyrazinyl)- (9CI) (CA INDEX NAME)



RN 873377-13-0 CAPLUS
CN Acetanilide, p-(3,6-dimethyl-2-pyrazinylsulfamyl)- (4CI) (CA INDEX NAME)



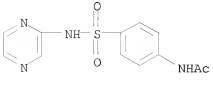
L4 ANSWER 1311 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1941:8734 CAPLUS
DOCUMENT NUMBER: 35:8734
ORIGINAL REFERENCE NO.: 35:1390e-i
TITLE: Organic cationoid reagents
AUTHOR(S): Oda, Ryohei; Ueda, Usaburo
SOURCE: Scientific Papers of the Institute of Physical and Chemical Research (Japan) (1940), 38, 44-9
CODEN: SPIPAG; ISSN: 0020-3092
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Anionoid compds. such as toluene, C10H8, α-HOC10H7, PhOH and PhNH2 are readily attacked by cationoid reagents whereas PhCl, BzOH, PhSO3H and PhNO2 are only slightly reacted upon. In concentrated H2SO4, α-nitroanthraquinone (I) is a strong oxidizing agent and acts as a cationoid reagent on various organic compds. The addition of 0.01-0.02 mol. of a reactive organic compound to 0.01 mol. I in about 30 cc. concentrated H2SO4 and dilution of the reaction mixture after 30 min. gave a red-violet color of a mixture of α-aminoanthraquinone and 1-amino-4-hydroxyanthraquinone (II), which, on addition of NaOH, gave a deep violet color due to II. By this test, a large series of compds. was differentiated into strongly, fairly and weakly anionoid compds. BzH is not oxidized by I but a substitution reaction takes place to a limited extent in the m-position. I gives a complicated oxidation-condensation complex with anthracene in the presence of H2SO4 in AcOH. In the absence of I, sulfonation takes place. In the presence of concentrated H2SO4, o-BzC6H4CO2H (III) acts as cationoid reagent. Anionoid compds. such as PhOH, α-HOC10H7, C10H8, pyrogallol, phenanthrene and anthracene give characteristic deep-colored reaction mixts., whereas C6H6, toluene and halogen, carboxylic acid and sulfonic acid derivs. of benzene and naphthalene give no color reactions. The addition of 5 g. C6H6 to 2.44 g. III in 30 cc. concentrated H2SO4, at 80° for 30 min. and dilution with H2O gave phthalophenone, m. 120.5°. The H2SO4 acted in this reaction in a manner analogous to AlCl3 in the Friedel-Crafts reaction.

IT 5433-91-0P, Acetanilide, p-(pyrazinoylsulfamyl)-
RL: PREP (Preparation)
(preparation of)

RN 5433-91-0 CAPLUS

CN Acetamide, N-[4-[(pyrazinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

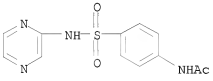


L4 ANSWER 1312 OF 1312 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1941:8733 CAPLUS
DOCUMENT NUMBER: 35:8733
ORIGINAL REFERENCE NO.: 35:1390c-e
TITLE: N1,N4-Pyrazinoyl derivatives of sulfanilamide
AUTHOR(S): Daniels, T. C.; Iwamoto, Harry
SOURCE: Journal of the American Chemical Society (1941), 63, 257-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C. A. 34, 3741.9. The name pyrazinoic acid is proposed for pyrazinemonocarboxylic acid (I) and pyrazinoyl for the radical. The chloride (II) of I was prepared with PCl5 in PCl3 or in C6H6; it is quite unstable and was not purified except for washing with dry C6H6. II (5 g.) and 6 g. sulfanilamide (III) in 40 cc. C5H5N, refluxed 1 hr., diluted with 300 cc. H2O, and the precipitate crystallized from 50% EtOH, give 30% of N4-pyrazinoylsulfanilamide (IV), m. 247-8° (m. ps. corrected); IV with Ac2O, refluxed 3 hrs., gives 80% of the N1-Ac derivative, m. 249-50°. IV and II in C5H5N, refluxed 1 hr., give 33% of N1,N4-dipyrazinoylsulfanilamide, m. 286-90°. The N4-Ac derivative of III and II in C5H5N, refluxed 1 hr., give 20% of N4-acetyl-N1-pyrazinoylsulfanilamide, m. 262-4°; hydrolysis with 10% NaOH (heating 10 min.) gives 30% of N1-pyrazinoylsulfanilamide, m. 246-8°.

IT 5433-91-0P, Acetanilide, p-(pyrazinoylsulfamyl)-
RL: PREP (Preparation)
(preparation of)

RN 5433-91-0 CAPLUS
CN Acetamide, N-[4-[(pyrazinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY     SESSION
FULL ESTIMATED COST                                        2.73        2.73

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 16:16:55 ON 30 OCT 2008

Connecting via Winsock to STN



Welcome to STN International!  Enter x:X

LOGINID:SSPTAJHM1624

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  JUL 28  CA/CAplus patent coverage enhanced
 NEWS  3  JUL 28  EPFULL enhanced with additional legal status
                  information from the epoline Register
 NEWS  4  JUL 28  IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
 NEWS  5  JUL 28  STN Viewer performance improved
 NEWS  6  AUG 01  INPADOCDB and INPAFAMDB coverage enhanced
 NEWS  7  AUG 13  CA/CAplus enhanced with printed Chemical Abstracts
                  page images from 1967-1998
 NEWS  8  AUG 15  CAOLD to be discontinued on December 31, 2008
 NEWS  9  AUG 15  CAplus currency for Korean patents enhanced
 NEWS 10  AUG 27  CAS definition of basic patents expanded to ensure
                  comprehensive access to substance and sequence
                  information
 NEWS 11  SEP 18  Support for STN Express, Versions 6.01 and earlier,
                  to be discontinued
 NEWS 12  SEP 25  CA/CAplus current-awareness alert options enhanced
                  to accommodate supplemental CAS indexing of
                  exemplified prophetic substances
 NEWS 13  SEP 26  WPIDS, WPINDEX, and WPIX coverage of Chinese and
                  and Korean patents enhanced
 NEWS 14  SEP 29  IFICLS enhanced with new super search field
 NEWS 15  SEP 29  EMBASE and EMBAL enhanced with new search and
                  display fields
 NEWS 16  SEP 30  CAS patent coverage enhanced to include exemplified
                  prophetic substances identified in new Japanese-
                  language patents
 NEWS 17  OCT 07  EPFULL enhanced with full implementation of EPC2000
 NEWS 18  OCT 07  Multiple databases enhanced for more flexible patent
                  number searching
 NEWS 19  OCT 22  Current-awareness alert (SDI) setup and editing
                  enhanced
 NEWS 20  OCT 22  WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
                  Applications
 NEWS 21  OCT 24  CHEMLIST enhanced with intermediate list of
                  pre-registered REACH substances

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
```

AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 21:26:08 ON 30 OCT 2008

=> file registry
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 21:26:17 ON 30 OCT 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 OCT 2008 HIGHEST RN 1068186-59-3
DICTIONARY FILE UPDATES: 29 OCT 2008 HIGHEST RN 1068186-59-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

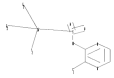
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

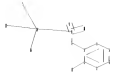
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10501510\10501510c.str





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chain nodes :
7  8  9  10  11  14  15  16  17
ring nodes :
1  2  3  4  5  6
chain bonds :
2-11  3-7  7-8  8-9  8-10  8-14  14-15  14-16  14-17
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
2-11  3-7  7-8  8-9  8-10  14-15  14-16  14-17
exact bonds :
8-14
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6


G1:C,O,X

G2:H,CN,X,CF3,O,Ak

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
 11:CLASS  14:Atom  15:CLASS  16:CLASS  17:CLASS



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
```
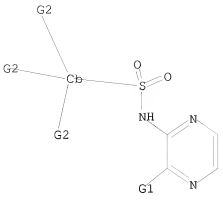
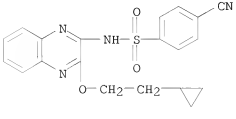



G1 C,O,X

G2 H,CN,X,CF3,O,Ak

Structure attributes must be viewed using STN Express query preparation.

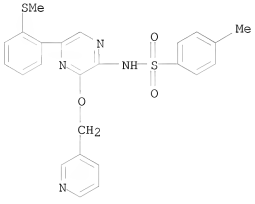
```
=> s l1
SAMPLE SEARCH INITIATED 21:26:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      117 TO ITERATE

100.0% PROCESSED      117 ITERATIONS                              50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:          1692 TO     2988
PROJECTED ANSWERS:             1164 TO     2276

L2           50 SEA SSS SAM L1

=> d scan

L2   50 ANSWERS   REGISTRY  COPYRIGHT 2008 ACS on STN
IN   Benzenesulfonamide, 4-cyano-N-[3-(2-cyclopropylethoxy)-2-quinoxalinyl]-
MF   C20 H18 N4 O3 S
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

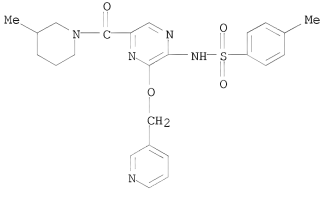
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Benzenesulfonamide, 4-methyl-N-[5-[2-(methylthio)phenyl]-3-(3-
    pyridinylmethoxy)-2-pyrazinyl]-
MF C24 H22 N4 O3 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 50 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Benzenesulfonamide, 4-methyl-N-[5-[(3-methyl-1-piperidinyl)carbonyl]-3-(3-
    pyridinylmethoxy)-2-pyrazinyl]-
MF C24 H27 N5 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1 full
FULL SEARCH INITIATED 21:27:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2454 TO ITERATE

```
100.0% PROCESSED     2454 ITERATIONS                          1626 ANSWERS
SEARCH TIME: 00.00.01

L3          1626 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   178.82     179.03

FILE 'CAPLUS' ENTERED AT 21:27:19 ON 30 OCT 2008
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FILE COVERS 1907 - 30 Oct 2008  VOL 149 ISS 18
FILE LAST UPDATED: 29 Oct 2008  (20081029/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> s l3
L4          512 L3

=> s l3 and (pd<=20020116 or ad<=20020116 or prd<=20020116)
            512 L3
       22659116 PD<=20020116
                (PD<=20020116)
        4224209 AD<=20020116
                (AD<=20020116)
        3690805 PRD<=20020116
                (PRD<=20020116)
L5          428 L3 AND (PD<=20020116 OR AD<=20020116 OR PRD<=20020116)

=> l5 and pyrazine
L5 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l5 and pyrazine
          14303 PYRAZINE
           2864 PYRAZINES
          15291 PYRAZINE
                (PYRAZINE OR PYRAZINES)
L6           38 L5 AND PYRAZINE
```
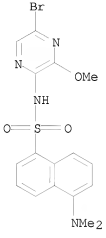
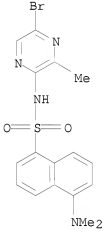

```
=> l5 and sulphonamide
L5 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l5 and sulphonamide
           238 SULPHONAMIDE
            94 SULPHONAMIDES
           318 SULPHONAMIDE
                 (SULPHONAMIDE OR SULPHONAMIDES)
L7           0 L5 AND SULPHONAMIDE

=> s l5 and sulfonamide
         23552 SULFONAMIDE
         18946 SULFONAMIDES
         33480 SULFONAMIDE
                 (SULFONAMIDE OR SULFONAMIDES)
L8         162 L5 AND SULFONAMIDE

=> l6 and l8
L6 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l6 and l8
L9           7 L6 AND L8

=> d l9 1-7 ibib hitstr

L9   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         1997:186961  CAPLUS
DOCUMENT NUMBER:          126:207131
ORIGINAL REFERENCE NO.:   126:39897a,39900a
TITLE:                    New Non-Peptide Endothelin-A Receptor Antagonists:
                          Synthesis, Biological Properties, and
                          Structure-Activity Relationships of
                          5-(Dimethylamino)-N-pyridyl-, -N-pyrimidinyl-,
                          -N-pyridazinyl-, and
                          -N-pyrazinyl-1-naphthalenesulfonamides
AUTHOR(S):                Bradbury, Robert H.; Bath, Colin; Butlin, Roger J.;
                          Dennis, Michael; Heys, Christine; Hunt, Sarah J.;
                          James, Roger; Mortlock, Andrew A.; Sumner, Neil F.;
                          Tang, Eric K.; Telford, Berwick; Whiting, Elaine;
                          Wilson, Campbell
CORPORATE SOURCE:         Cardiovascular and Musculoskeletal Department, ZENECA
                          Pharmaceuticals, Mereside /Alderley Park
                          /Macclesfield, SK10 4TG, UK
SOURCE:                   Journal of Medicinal Chemistry (1997),
                          40(6), 996-1004
                          CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER:                American Chemical Society
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
IT   173253-41-3P 173253-66-2P 173253-67-3P
     173253-73-1P 173253-74-2P 173253-79-7P
     173253-83-3P 173253-98-0P 187973-54-2P
     187973-55-3P 187973-56-4P 187973-57-5P
     187973-58-6P 187973-59-7P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
```

study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and endothelin A antagonist structure activity relations of heterocyclic naphthalenesulfonamides)

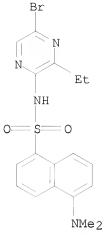
RN 173253-41-3 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-methoxy-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



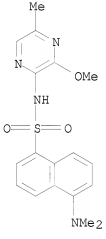
RN 173253-66-2 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-methyl-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



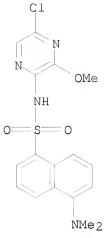
RN 173253-67-3 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-ethyl-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



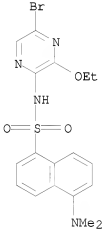
RN 173253-73-1 CAPLUS
CN 1-Naphthalenesulfonamide, 5-(dimethylamino)-N-(3-methoxy-5-methyl-2-pyrazinyl)- (CA INDEX NAME)



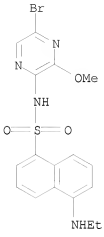
RN 173253-74-2 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-chloro-3-methoxy-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



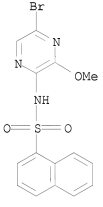
RN 173253-79-7 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-ethoxy-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



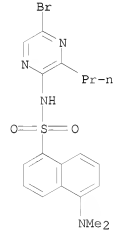
RN 173253-83-3 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-methoxy-2-pyrazinyl)-5-(ethylamino)- (CA INDEX NAME)



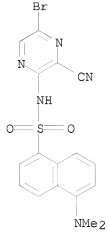
RN 173253-98-0 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-methoxy-2-pyrazinyl)- (CA INDEX NAME)



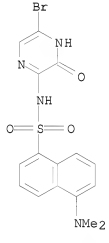
RN 187973-54-2 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-propyl-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



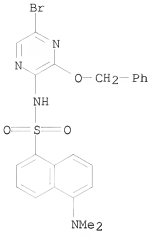
RN 187973-55-3 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-cyano-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



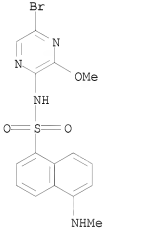
RN 187973-56-4 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3,4-dihydro-3-oxo-2-pyrazinyl)-5-(dimethylamino)- (CA INDEX NAME)



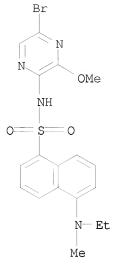
RN 187973-57-5 CAPLUS
CN 1-Naphthalenesulfonamide, N-[5-bromo-3-(phenylmethoxy)-2-pyrazinyl]-5-(dimethylamino)- (CA INDEX NAME)



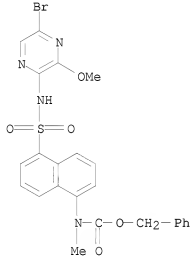
RN 187973-58-6 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-methoxy-2-pyrazinyl)-5-(methylamino)- (CA INDEX NAME)



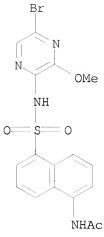
RN 187973-59-7 CAPLUS
CN 1-Naphthalenesulfonamide, N-(5-bromo-3-methoxy-2-pyrazinyl)-5-(ethylmethylamino)- (CA INDEX NAME)



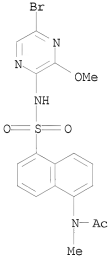
IT 173253-47-9P 173253-56-0P 187973-62-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and endothelin A antagonist structure activity relations of heterocyclic naphthalenesulfonamides)
RN 173253-47-9 CAPLUS
CN Carbamic acid, [5-[[(5-bromo-3-methoxypyrazinyl)amino]sulfonyl]-1-naphthalenyl]methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 173253-56-0 CAPLUS
CN Acetamide, N-[5-[[(5-bromo-3-methoxy-2-pyrazinyl)amino]sulfonyl]-1-naphthalenyl]- (CA INDEX NAME)



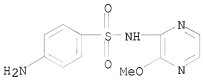
RN 187973-62-2 CAPLUS
CN Acetamide, N-[5-[[(5-bromo-3-methoxy-2-pyrazinyl)amino]sulfonyl]-1-naphthalenyl]-N-methyl- (CA INDEX NAME)



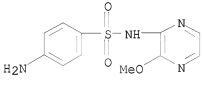
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1981:609747 CAPLUS
DOCUMENT NUMBER: 95:209747
ORIGINAL REFERENCE NO.: 95:34957a,34960a
TITLE: Use of UV spectra for identification of sulfanilamide drugs
AUTHOR(S): Chichiro, V. E.; Arzamastsev, A. P.; Trius, N. V.; Suranova, A. V.; Sadchikova, N. P.
CORPORATE SOURCE: Gos. Nauchno-Issled. Inst. Stand. Kontrol. Lek. Sredstv Minist. Zdravookhr., Moscow, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1981), 15(9), 106-11
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian

IT 152-47-6
RL: PROC (Process)
(identification of, by UV spectrometry)
RN 152-47-6 CAPLUS
CN Benzenesulfonamide, 4-amino-N-(3-methoxy-2-pyrazinyl)- (CA INDEX NAME)



L9 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1971:79737 CAPLUS
DOCUMENT NUMBER: 74:79737
ORIGINAL REFERENCE NO.: 74:12909a,12912a
TITLE: Paper electrophoresis of some therapeutic sulfonamides
AUTHOR(S): Garber, Carlos; Dobrecky, Jose
CORPORATE SOURCE: Fac. Farm. Bioquim., Univ. Nac. Buenos Aires, Buenos Aires, Argent.
SOURCE: Proanalisis (1969), 2(4), 62-7
CODEN: PRASBZ; ISSN: 0370-1417
DOCUMENT TYPE: Journal
LANGUAGE: Spanish
IT 152-47-6
RL: ANST (Analytical study)
(electrophoresis of)
RN 152-47-6 CAPLUS
CN Benzenesulfonamide, 4-amino-N-(3-methoxy-2-pyrazinyl)- (CA INDEX NAME)

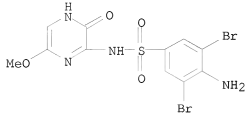


L9 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1969:501816 CAPLUS
DOCUMENT NUMBER: 71:101816
ORIGINAL REFERENCE NO.: 71:18969a,18972a
TITLE: Pyrazine derivatives. XII. Sulfanilamidodimethoxypyrazines
AUTHOR(S): Bernardi, Luigi; Luini, F.; Palamidessi, G.
CORPORATE SOURCE: Ist. Ric. "Farmitalia", Milan, Italy
SOURCE: Farmaco, Edizione Scientifica (1969), 24(5), 500-11
CODEN: FRPSAX; ISSN: 0430-0920
DOCUMENT TYPE: Journal
LANGUAGE: Italian
OTHER SOURCE(S): CASREACT 71:101816
IT 23902-66-1P 23902-76-3P 23902-77-4P
23902-85-4P 23902-86-5P 23917-53-5P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

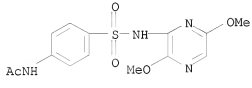
RN 23902-66-1 CAPLUS

CN Sulfanilamide, 3,5-dibromo-N1-(3-hydroxy-6-methoxypyrazinyl)- (8CI) (CA INDEX NAME)



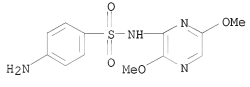
RN 23902-76-3 CAPLUS

CN Acetanilide, 4'-[(3,6-dimethoxypyrazinyl)sulfamoyl]- (8CI) (CA INDEX NAME)



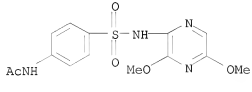
RN 23902-77-4 CAPLUS

CN Sulfanilamide, N1-(3,6-dimethoxypyrazinyl)- (8CI) (CA INDEX NAME)



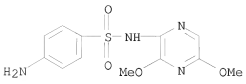
RN 23902-85-4 CAPLUS

CN Acetanilide, 4'-[(3,5-dimethoxypyrazinyl)sulfamoyl]- (8CI) (CA INDEX NAME)

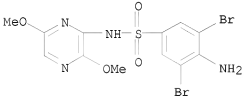


RN 23902-86-5 CAPLUS

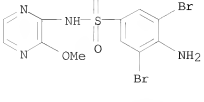
CN Sulfanilamide, N1-(3,5-dimethoxypyrazinyl)- (8CI) (CA INDEX NAME)



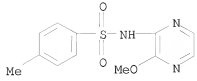
RN 23917-53-5 CAPLUS
CN Sulfanilamide, 3,5-dibromo-N1-(3,6-dimethoxypyrazinyl)- (8CI) (CA INDEX NAME)



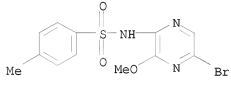
L9 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1966:84579 CAPLUS
DOCUMENT NUMBER: 64:84579
ORIGINAL REFERENCE NO.: 64:15880e-h,15881a-d
TITLE: Reaction products formed by bromometric titration of several sulfonamides of the pyridazine, pyrazine, and pyrazole series
AUTHOR(S): Esche, J.; Wojahn, H.
CORPORATE SOURCE: Bundesgesundheitsamt Berlin, Germany
SOURCE: Archiv der Pharmazie und Berichte der Deutschen Pharmazeutischen Gesellschaft (1966), 299(2), 147-53
CODEN: APBDAJ; ISSN: 0376-0367
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT 5900-52-7P, Sulfanilamide, 3,5-dibromo-N1-(3-methoxypyrazinyl)-
5900-66-3P, p-Toluenesulfonamide, N-(3-methoxypyrazinyl)-
5900-67-4P, p-Toluenesulfonamide, N-(5-bromo-3-methoxypyrazinyl)-
7621-02-5P, Sulfanilamide,
3,5-dibromo-N1-(3,5-dimethoxypyrazinyl)-
RL: PREP (Preparation)
(preparation of)
RN 5900-52-7 CAPLUS
CN Sulfanilamide, 3,5-dibromo-N1-(3-methoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)



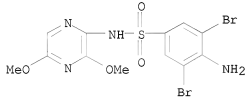
RN 5900-66-3 CAPLUS
CN p-Toluenesulfonamide, N-(3-methoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)



RN 5900-67-4 CAPLUS
CN p-Toluenesulfonamide, N-(5-bromo-3-methoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)



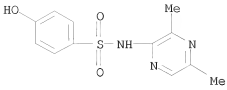
RN 7621-02-5 CAPLUS
CN Sulfanilamide, 3,5-dibromo-N1-(3,5-dimethoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)



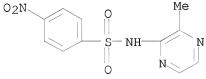
L9 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1952:26802 CAPLUS
DOCUMENT NUMBER: 46:26802
ORIGINAL REFERENCE NO.: 46:4580b-e
TITLE: Hydroxybenzenesulfonamidopyrazines
INVENTOR(S): Hultquist, Martin E.; SubbaRow, Yellapragada; Bryant, Aloysius J.
PATENT ASSIGNEE(S): American Cyanamid Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2572728		19511023	US 1949-69828	19490107 <--

IT 855426-53-8P, 1-Phenol-4-sulfonamide, N-[3,5-dimethylpyrazinyl]-
RL: PREP (Preparation)
(preparation of)
RN 855426-53-8 CAPLUS
CN Benzenesulfonamide, N-(3,5-dimethyl-2-pyrazinyl)-4-hydroxy- (CA INDEX NAME)



L9 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1947:22420 CAPLUS
DOCUMENT NUMBER: 41:22420
ORIGINAL REFERENCE NO.: 41:4496c-i,4497a-d
TITLE: Pyrazine chemistry. II. Derivatives of 3-hydroxypyrazinoic acid
AUTHOR(S): McDonald, Francis G.; Ellingson, Rudolph C.
CORPORATE SOURCE: Mead Johnson and Co., Evansville, IN
SOURCE: Journal of the American Chemical Society (1947), 69, 1034-7
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT 858497-25-3P, Benzenesulfonamide, N-(3-amino-2-pyrazinyl)-p-nitro-
RL: PREP (Preparation)
(preparation of)
RN 858497-25-3 CAPLUS
CN Benzenesulfonamide, N-(3-methyl-2-pyrazinyl)-4-nitro- (CA INDEX NAME)



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       1409172 PH
                  (PH OR PHS)
       1680167 PHENYL
                  (PHENYL OR PH)
L10          11 L6 AND PHENYL

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         10902 PHS
       1409172 PH
                  (PH OR PHS)
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L11          31 L8 AND PHENYL

=> s l10 and l11
L12           3 L10 AND L11

=> s l12 not l9
L13           0 L12 NOT L9

=> d l12 1-3 ibib hitstr

L12  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:          1969:501816  CAPLUS
DOCUMENT NUMBER:           71:101816
ORIGINAL REFERENCE NO.:    71:18969a,18972a
TITLE:                     Pyrazine derivatives.  XII.
                           Sulfanilamidodimethoxypyrazines
AUTHOR(S):                 Bernardi, Luigi; Luini, F.; Palamidessi, G.
CORPORATE SOURCE:          Ist. Ric. "Farmitalia", Milan, Italy
SOURCE:                    Farmaco, Edizione Scientifica (1969), 24(5),
                           500-11
                           CODEN: FRPSAX; ISSN: 0430-0920
DOCUMENT TYPE:             Journal
LANGUAGE:                  Italian
OTHER SOURCE(S):           CASREACT 71:101816
IT    23902-66-1P 23902-76-3P 23902-77-4P
      23902-85-4P 23902-86-5P 23917-53-5P
      RL: SPN (Synthetic preparation); PREP (Preparation)
         (preparation of)
RN    23902-66-1  CAPLUS
CN    Sulfanilamide, 3,5-dibromo-N1-(3-hydroxy-6-methoxypyrazinyl)- (8CI)  (CA
      INDEX NAME)
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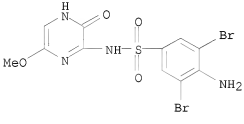


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RN    23902-76-3  CAPLUS
CN    Acetanilide, 4'-[(3,6-dimethoxypyrazinyl)sulfamoyl]- (8CI)  (CA INDEX
      NAME)
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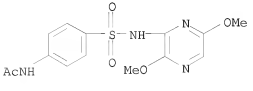


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RN    23902-77-4  CAPLUS
CN    Sulfanilamide, N1-(3,6-dimethoxypyrazinyl)- (8CI)  (CA INDEX NAME)
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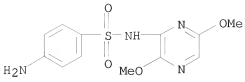
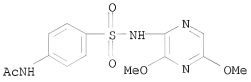
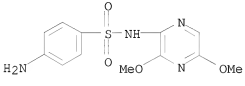


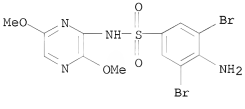
RN 23902-85-4 CAPLUS
CN Acetanilide, 4'-[(3,5-dimethoxypyrazinyl)sulfamoyl]- (8CI) (CA INDEX NAME)



RN 23902-86-5 CAPLUS
CN Sulfanilamide, N1-(3,5-dimethoxypyrazinyl)- (8CI) (CA INDEX NAME)



RN 23917-53-5 CAPLUS
CN Sulfanilamide, 3,5-dibromo-N1-(3,6-dimethoxypyrazinyl)- (8CI) (CA INDEX NAME)



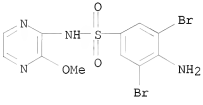
L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1966:84579 CAPLUS
DOCUMENT NUMBER: 64:84579
ORIGINAL REFERENCE NO.: 64:15880e-h,15881a-d
TITLE: Reaction products formed by bromometric titration of several sulfonamides of the pyridazine, pyrazine, and pyrazole series
AUTHOR(S): Esche, J.; Wojahn, H.
CORPORATE SOURCE: Bundesgesundheitsamt Berlin, Germany
SOURCE: Archiv der Pharmazie und Berichte der Deutschen Pharmazeutischen Gesellschaft (1966), 299(2), 147-53
CODEN: APBDAJ; ISSN: 0376-0367
DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

IT 5900-52-7P, Sulfanilamide, 3,5-dibromo-N1-(3-methoxypyrazinyl)-
5900-66-3P, p-Toluenesulfonamide, N-(3-methoxypyrazinyl)-
5900-67-4P, p-Toluenesulfonamide, N-(5-bromo-3-methoxypyrazinyl)-
7621-02-5P, Sulfanilamide,
3,5-dibromo-N1-(3,5-dimethoxypyrazinyl)-
RL: PREP (Preparation)
(preparation of)

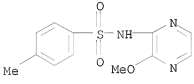
RN 5900-52-7 CAPLUS

CN Sulfanilamide, 3,5-dibromo-N1-(3-methoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)



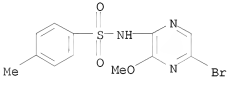
RN 5900-66-3 CAPLUS

CN p-Toluenesulfonamide, N-(3-methoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)



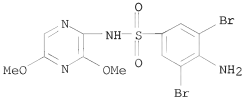
RN 5900-67-4 CAPLUS

CN p-Toluenesulfonamide, N-(5-bromo-3-methoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)

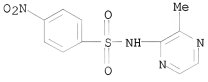


RN 7621-02-5 CAPLUS

CN Sulfanilamide, 3,5-dibromo-N1-(3,5-dimethoxypyrazinyl)- (7CI, 8CI) (CA INDEX NAME)



L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1947:22420 CAPLUS
DOCUMENT NUMBER: 41:22420
ORIGINAL REFERENCE NO.: 41:4496c-i,4497a-d
TITLE: Pyrazine chemistry. II. Derivatives of 3-hydroxypyrazinoic acid
AUTHOR(S): McDonald, Francis G.; Ellingson, Rudolph C.
CORPORATE SOURCE: Mead Johnson and Co., Evansville, IN
SOURCE: Journal of the American Chemical Society (1947), 69, 1034-7
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
IT 858497-25-3P, Benzenesulfonamide, N-(3-amino-2-pyrazinyl)-p-nitro-
RL: PREP (Preparation)
(preparation of)
RN 858497-25-3 CAPLUS
CN Benzenesulfonamide, N-(3-methyl-2-pyrazinyl)-4-nitro- (CA INDEX NAME)



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FULL ESTIMATED COST 62.14 241.17

SESSION WILL BE HELD FOR 120 MINUTES
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